





Anti-Human CD49c (VJ1/6)

	REF			
PURE	49CPU	1 mg	1 mg/ml	RUO
FITC	49CF-100T	100 test	20 µL/test	
PE	49CPE-100T	100 test	20 µL/test	

1. PRODUCT DESCRIPTION

Clone: VJ1/6;
Isotype: IgG1;
Tested application: flow cytometry;
Immunogen: The anti-CD49c monoclonal antibody derives from TNF activated HUVEC cells;
Species reactivity: Human;
Storage instruction: store in the dark at 2-8 °C;
Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN₃);
Recommended usage: Immunostep's CD49c, clone TEA1/41 is a monoclonal antibody intended for the identification and enumeration of Integrin alpha-3 protein using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10⁶ cells;
Presentation: liquid;
Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
Purification: Affinity chromatography;
Other names: Integrin alpha-3, CD49 antigen-like family member C, FRP-2, Galactoprotein B3, GAPB3, VLA-3 subunit alpha, MSK18, VCA-2; VL3A; VLA3a;
Gene ID: 3673;
Molecular weight: 170 kDa.

2. ANTIGEN DETAILS

Large description: The monoclonal antibody is directed against the CD49c-antigen (VLA-3 alpha-chain or Integrin alpha-3/beta-1) a receptor for fibronectin, laminin, collagen, epiligrin, thrombospondin and CSPG4. Integrin alpha-3/beta-1 provides a docking site for FAP (seprase) at invadopodia plasma membranes in a collagen-dependent manner and hence may participate in the adhesion, formation of invadopodia and matrix degradation processes, promoting cell invasion. Alpha-3/beta-1 may mediate with LGALS3 the stimulation by CSPG4 of endothelial cells migration.

Monoclonal antibody VJ1/6 reacts with α 3 integrin, a transmembrane glycoprotein which non-covalently associates with integrin β 1 (CD29) to form the α3β1 (CD49c/CD29,VLA-3) complex which is proteolytically cleaved into two disulfide linked fragments of 125 kD and 30 kD. CD49c is expressed mostly on endothelial and epithelial cells (basal epidermal layers). It is not expressed on platelets and is expressed weakly on peripheral blood leukocytes. The CD49c/CD29 complex serves as an adhesive receptor for kalinin or epiligrin. This interaction may be important for thymocyte interaction with thymic epithelium. This antibody is suitable for immunohistochemical staining on acetone-fixed frozen tissue sections.⁽¹⁻⁴⁾

3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

4. ADDITIONAL INFORMATION

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5. REFERENCES

- Wayner EA, Carter WG. Identification of multiple cell adhesion receptors for collagen and fibronectin in human fibrosarcoma cells possessing unique alpha and common beta subunits. *J Cell Biol*1987 Oct;105(4):1873-84.
- Luque A, Gomez M, Puzon W, Takada Y, Sanchez-Madrid F, Cabanas C. Activated conformations of very late activation integrins detected by a group of antibodies (HUTS) specific for a novel regulatory region (355-425) of the common beta 1 chain. *J Biol Chem*1996 May 10;271(19):11067-75.
- Liddington RC, Ginsberg MH. Integrin activation takes shape. *J Cell Biol*2002 Sep 2;158(5):833-9.
- Mitchell K, Szekeres C, Milano V, Svenson KB, Nilsen-Hamilton M, Kreidberg JA, et al. Alpha3beta1 integrin in epidermis promotes wound angiogenesis and keratinocyte-to-endothelial-cell crosstalk through the induction of MRP3. *J Cell Sci*2009 Jun 1;122(Pt 11):1778-87.

6. EXPLANATION OF SYMBOLS

	Form
REF	Catalog reference
	Contains sufficient for <n> test
	Quantity per test
	Regulatory Status
RUO	Research Use Only
	Manufacturer

7. MANUFACTURED BY:



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